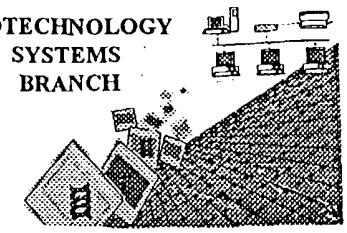
BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/674,076
Source: IFW9
Date Processed by STIC: 6/29/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):** U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED **SUGGESTED CORRECTION** **SERIAL NUMBER:** 10/674,076

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
4	Non-ASCII	The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated ~~numeric identifiers and responses.~~ Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n/Xaa	"n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid

IFWO

RAW SEQUENCE LISTING DATE: 06/29/2004
PATENT APPLICATION: **US/10/674,076** TIME: 08:49:46

Input Set : **A:\N0260.70044US01seq.txt**
Output Set: **N:\CRF4\06292004\J674076.raw**

```
  3 <110> APPLICANT: Shashoua, Victor E
  5 <120> TITLE OF INVENTION: NEUROPROTECTIVE PEPTIDES AND USES THEREOF
  7 <130> FILE REFERENCE: N0260.70044US01
  9 <140> CURRENT APPLICATION NUMBER: US 10/674,076
 10 <141> CURRENT FILING DATE: 2003-09-29
 12 <150> PRIOR APPLICATION NUMBER: US 09/021,247
 13 <151> PRIOR FILING DATE: 1998-02-10
 15 <150> PRIOR APPLICATION NUMBER: US 09/810,863
 16 <151> PRIOR FILING DATE: 2001-03-16
 18 <160> NUMBER OF SEQ ID NOS: 19
 20 <170> SOFTWARE: PatentIn version 3.2
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 12
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Artificial sequence
 27 <220> FEATURE:
 29 <223> OTHER INFORMATION: Peptide
 31 <220> FEATURE:
 32 <221> NAME/KEY: MISC_FEATURE
 33 <222> LOCATION: (1)..(1)
 34 <223> OTHER INFORMATION: X = Asp, Gln, Gly or Tyr
 36 <220> FEATURE:
 37 <221> NAME/KEY: MISC_FEATURE
 38 <222> LOCATION: (2)..(2)
 39 <223> OTHER INFORMATION: X = any amino acid
 41 <220> FEATURE:
 42 <221> NAME/KEY: MISC_FEATURE
 43 <222> LOCATION: (3)..(3)
 44 <223> OTHER INFORMATION: X = Asp, Asn, Thr or Glu
 46 <220> FEATURE:
 47 <221> NAME/KEY: MISC_FEATURE
 48 <222> LOCATION: (4)..(4)
 49 <223> OTHER INFORMATION: X = any amino acid
 51 <220> FEATURE:
 52 <221> NAME/KEY: MISC_FEATURE
 53 <222> LOCATION: (5)..(5)
 54 <223> OTHER INFORMATION: X = Asp, Ser, Gly, Asn or Leu
 56 <220> FEATURE:
 57 <221> NAME/KEY: MISC_FEATURE
 58 <222> LOCATION: (6)..(6)
 59 <223> OTHER INFORMATION: X = any amino acid
 61 <220> FEATURE:
 62 <221> NAME/KEY: MISC_FEATURE
```

pp 1-6

insufficient explanation for Artificial Sequence (give source of genetic material. See item 11 on Error Summary Sheet.)

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING DATE: 06/29/2004
PATENT APPLICATION: **US/10/674,076** TIME: 08:49:46

Input Set : **A:\N0260.70044US01seq.txt**
Output Set: **N:\CRF4\06292004\J674076.raw**

```
     63 <222> LOCATION: (7)..(7)
     64 <223> OTHER INFORMATION: X = Ala, Asp, Phe, Lys, Thr, Tyr, Arg, Val, Cys or Ser
     66 <220> FEATURE:
     67 <221> NAME/KEY: MISC_FEATURE
     68 <222> LOCATION: (8)..(8)
     69 <223> OTHER INFORMATION: X = any amino acid
     71 <220> FEATURE:
     72 <221> NAME/KEY: MISC_FEATURE
     73 <222> LOCATION: (9)..(9)
     74 <223> OTHER INFORMATION: X = Asp, Glu, Gly, Ser, Thr, Met or Asn
     76 <220> FEATURE:
     77 <221> NAME/KEY: MISC_FEATURE
     78 <222> LOCATION: (10)..(10)
     79 <223> OTHER INFORMATION: X = any amino acid
     81 <220> FEATURE:
     82 <221> NAME/KEY: MISC_FEATURE
     83 <222> LOCATION: (11)..(11)
     84 <223> OTHER INFORMATION: X = Glu, Gln, Ala, Leu or Asn
     86 <220> FEATURE:
     87 <221> NAME/KEY: misc_feature
     88 <222> LOCATION: (12)..(12)
     89 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
     91 <400> SEQUENCE: 1
W--> 93 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     94 1               5                   10
     97 <210> SEQ ID NO: 2
     98 <211> LENGTH: 12
     99 <212> TYPE: PRT
    100 <213> ORGANISM: Artificial sequence
    102 <220> FEATURE:
    104 <223> OTHER INFORMATION: Peptide
    107 <220> FEATURE:
    108 <221> NAME/KEY: MISC_FEATURE
    109 <222> LOCATION: (2)..(2)
    110 <223> OTHER INFORMATION: X = any amino acid
    112 <220> FEATURE:
    113 <221> NAME/KEY: MISC_FEATURE
    114 <222> LOCATION: (4)..(4)
    115 <223> OTHER INFORMATION: X = any amino acid
    117 <220> FEATURE:
    118 <221> NAME/KEY: MISC_FEATURE
    119 <222> LOCATION: (7)..(7)
    120 <223> OTHER INFORMATION: X = any amino acid
    122 <220> FEATURE:
    123 <221> NAME/KEY: MISC_FEATURE
    124 <222> LOCATION: (10)..(10)
    125 <223> OTHER INFORMATION: X = any amino acid
    127 <220> FEATURE:
    128 <221> NAME/KEY: MISC_FEATURE
```

same error

RAW SEQUENCE LISTING DATE: 06/29/2004
PATENT APPLICATION: **US/10/674,076** TIME: 08:49:46

Input Set : **A:\N0260.70044US01seq.txt**
Output Set: **N:\CRF4\06292004\J674076.raw**

```
     129 <222> LOCATION: (11)..(11)
     130 <223> OTHER INFORMATION: X = any amino acid
     132 <400> SEQUENCE: 2
W--> 134 Asp Xaa Asp Xaa Asp Gly Xaa Ile Asp Xaa Xaa Glu
     135 1               5                   10
     138 <210> SEQ ID NO: 3
     139 <211> LENGTH: 12
     140 <212> TYPE: PRT
     141 <213> ORGANISM: Artificial sequence
     143 <220> FEATURE:
     145 <223> OTHER INFORMATION: Peptide
     147 <400> SEQUENCE: 3
     149 Asp Gly Asp Gly Asp Phe Ala Ile Asp Ala Pro Glu
     150 1               5                   10
     153 <210> SEQ ID NO: 4
     154 <211> LENGTH: 14
     155 <212> TYPE: PRT
     156 <213> ORGANISM: Artificial sequence
     158 <220> FEATURE:
     160 <223> OTHER INFORMATION: Peptide
     162 <400> SEQUENCE: 4
     164 Lys Lys Asp Gly Asp Gly Asp Phe Ala Ile Asp Ala Pro Glu
     165 1               5                   10
     168 <210> SEQ ID NO: 5
     169 <211> LENGTH: 16
     170 <212> TYPE: PRT
     171 <213> ORGANISM: Artificial sequence
     173 <220> FEATURE:
     175 <223> OTHER INFORMATION: Peptide
     177 <400> SEQUENCE: 5
     179 Lys Lys Lys Lys Asp Gly Asp Gly Asp Phe Ala Ile Asp Ala Pro Glu
     180 1               5                   10                  15
     183 <210> SEQ ID NO: 6
     184 <211> LENGTH: 21
     185 <212> TYPE: DNA
     186 <213> ORGANISM: Artificial sequence
W--> 187 <220> FEATURE:
     189 <223> OTHER INFORMATION: Oligonucleotide
     191 <400> SEQUENCE: 6
     192 agttgagggg actttccagg c                                          21
     195 <210> SEQ ID NO: 7
     196 <211> LENGTH: 20
     197 <212> TYPE: DNA
     198 <213> ORGANISM: Artificial sequence
     200 <220> FEATURE:
     202 <223> OTHER INFORMATION: Oligonucleotide
     204 <400> SEQUENCE: 7
     205 tgcagattgc gcaatctgca                                           20
     208 <210> SEQ ID NO: 8
```

RAW SEQUENCE LISTING DATE: 06/29/2004
PATENT APPLICATION: **US/10/674,076** TIME: 08:49:46

Input Set : **A:\N0260.70044US01seq.txt**
Output Set: **N:\CRF4\06292004\J674076.raw**

209 <211> LENGTH: 21
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial sequence
213 <220> FEATURE:
215 <223> OTHER INFORMATION: Oligonucleotide
217 <400> SEQUENCE: 8
218 cgcttgatga gtcagccgga a 21
221 <210> SEQ ID NO: 9
222 <211> LENGTH: 20
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial sequence
226 <220> FEATURE:
228 <223> OTHER INFORMATION: Peptide
230 <400> SEQUENCE: 9
232 Lys Lys Lys Lys Asp Gly Asp Gly Asp Phe Ala Ile Asp Ala Pro Glu
233 1 5 10 15
235 Lys Lys Lys Lys
236 20
239 <210> SEQ ID NO: 10
240 <211> LENGTH: 8
241 <212> TYPE: PRT
242 <213> ORGANISM: Artificial sequence
244 <220> FEATURE:
246 <223> OTHER INFORMATION: Peptide
249 <400> SEQUENCE: 10
251 Asp Phe Ala Ile Asp Ala Pro Glu
252 1 5
255 <210> SEQ ID NO: 11
256 <211> LENGTH: 9
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial sequence
260 <220> FEATURE:
262 <223> OTHER INFORMATION: Peptide
264 <220> FEATURE:
265 <221> NAME/KEY: MISC_FEATURE
266 <222> LOCATION: (1)..(1)
267 <223> OTHER INFORMATION: X = any amino acid
269 <400> SEQUENCE: 11
W--> **271 Xaa Asp Phe Ala Ile Asp Ala Pro Glu**
272 1 5
275 <210> SEQ ID NO: 12
276 <211> LENGTH: 9
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial sequence
280 <220> FEATURE:
282 <223> OTHER INFORMATION: Peptide
284 <400> SEQUENCE: 12
286 Gly Asp Phe Ala Ile Asp Ala Pro Glu
287 1 5

RAW SEQUENCE LISTING DATE: 06/29/2004
PATENT APPLICATION: **US/10/674,076** TIME: 08:49:46

Input Set : **A:\N0260.70044US01seq.txt**
Output Set: **N:\CRF4\06292004\J674076.raw**

290 <210> SEQ ID NO: 13
291 <211> LENGTH: 10
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial sequence
295 <220> FEATURE:
297 <223> OTHER INFORMATION: Peptide
299 <220> FEATURE:
300 <221> NAME/KEY: MISC_FEATURE
301 <222> LOCATION: (1)..(1)
302 <223> OTHER INFORMATION: X = Asp, Asn, Thr or Glu
304 <220> FEATURE:
305 <221> NAME/KEY: MISC_FEATURE
306 <222> LOCATION: (2)..(2)
307 <223> OTHER INFORMATION: X = any amino acid
311 <400> SEQUENCE: 13
W--> **313 Xaa Xaa Asp Phe Ala Ile Asp Ala Pro Glu**
314 1 5 10
317 <210> SEQ ID NO: 14
318 <211> LENGTH: 10
319 <212> TYPE: PRT
320 <213> ORGANISM: Artificial sequence
322 <220> FEATURE:
324 <223> OTHER INFORMATION: Peptide
326 <220> FEATURE:
327 <221> NAME/KEY: MISC_FEATURE
328 <222> LOCATION: (2)..(2)
329 <223> OTHER INFORMATION: X = any amino acid
331 <400> SEQUENCE: 14
W--> **333 Asp Xaa Asp Phe Ala Ile Asp Ala Pro Glu**
334 1 5 10
337 <210> SEQ ID NO: 15
338 <211> LENGTH: 11
339 <212> TYPE: PRT
340 <213> ORGANISM: Artificial sequence
342 <220> FEATURE:
344 <223> OTHER INFORMATION: Peptide
346 <220> FEATURE:
347 <221> NAME/KEY: MISC_FEATURE
348 <222> LOCATION: (1)..(1)
349 <223> OTHER INFORMATION: X = any amino acid
351 <220> FEATURE:
352 <221> NAME/KEY: MISC_FEATURE
353 <222> LOCATION: (2)..(2)
354 <223> OTHER INFORMATION: X = Asp, Asn, Thr or Glu
356 <220> FEATURE:
357 <221> NAME/KEY: MISC_FEATURE
358 <222> LOCATION: (3)..(3)
359 <223> OTHER INFORMATION: X = any amino acid
361 <400> SEQUENCE: 15

IMPORTANT

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/29/2004
PATENT APPLICATION: **US/10/674,076** TIME: 08:49:47

Input Set : **A:\N0260.70044US01seq.txt**
Output Set: **N:\CRF4\06292004\J674076.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12
Seq#:2; Xaa Pos. 2,4,7,10,11
Seq#:11; Xaa Pos. 1
Seq#:13; Xaa Pos. 1,2
Seq#:14; Xaa Pos. 2
Seq#:15; Xaa Pos. 1,2,3
Seq#:16; Xaa Pos. 2,3
Seq#:17; Xaa Pos. 1,2,3,4
Seq#:18; Xaa Pos. 2,3,4
Seq#:19; Xaa Pos. 1,2,3,4,5,6,7,8

VERIFICATION SUMMARY DATE: 06/29/2004
PATENT APPLICATION: **US/10/674,076** TIME: 08:49:47

Input Set : **A:\N0260.70044US01seq.txt**
Output Set: **N:\CRF4\06292004\J674076.raw**

L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:187 M:283 W: Missing Blank Line separator, <220> field identifier
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0